

PTO/SB/08A (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 9

Complete if Known

Application Number	10/662,641
Filing Date	September 15, 2003
First Named Inventor	Standing, et al.
Group Art Unit	1623
Examiner Name	Unassigned
Attorney Docket Number	06171.105097 IDX 1021

3403759 1

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
D	AA	4,916,122	A	Chu et al.	04-10-1990	
	AB	4,957,924	A	Beauchamp	09-18-1990	
	AC	5,190,926	A	Chu et al.	03-02-1993	
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	AE	5,223,263	A	Hostetler et al.	06-29-1993	
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	AG	5,411,947	A	Hostetler et al.	05-02-1995	
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V	AU	6,194,391	B1	Schinazi et al.	02-27-2001	
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FOREIGN PATENT DOCUMENTS

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		Office	Number	Kind Code ² (if known)				
	BA	EP	0,350,287	A2	Vical, Inc.	01-10-1990		
	BB	EP	0,352,248	A1	Medivir Aktiebolag	01-24-1990		
	BC	EP	0,355,131	B1	Pro-neuron, Inc.	09-04-1996		
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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72	CA	AHMED, S.N.S., et al., "Early detection of viral resistance by determination of hepatitis B virus polymerase mutations in patients treated by lamivudine for chronic hepatitis B," <i>Hepatology</i> , 32(5):1078-1088 (November 2000)	
	CB	ALLEN, M. I., et al., "Identification and characterization of mutations in hepatitis B virus resistant to lamivudine," <i>Hepatology</i> 27(6):1670-1677 (June 1998).	
	CC	ARNER, E.S.J., et al., "Mammalian Deoxyribonucleoside Kinases," <i>Pharm. Ther.</i> , 67(2), 155-186 (1995).	
	CD	BERK, A.J., et al., "A Genetically Distinct Tymidine Kinase in Mammalian Mitochondria," <i>J Biol Chem</i> , 248(8):2722-2729 (1973).	
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	CG	BRIDGES, E.G., et al., "Characterization of a dCTP Transport Activity Reconstituted from Human Mitochondria," <i>J. Biol. Chem.</i> , 274(8):4620-4625 (February 19, 1999)	
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V	CM	CHARIOT, P., et al., "Zidovudine-induced mitochondrial disorder with massive liver steatosis myopathy, lactic acidosis, and mitochondrial DNA depletion," <i>J. Hepatology</i> , 30:156-160 (1999).	
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Examiner Signature		Date Considered	12/6/05
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Sheet

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Filing Date

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First Named Inventor

Standing, *et al.*

Group Art Unit

1623

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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	DA	CHEN, M.S., <i>et al.</i> , "Characterization of Pyrimidine Deoxyribonucleoside Kinase (Thymidine Kinase) and Thymidylate Kinase as a Multifunctional Enzyme in Cells Transformed by Herpes Simplex Virus Type 1 and in Cells Infected with Mutant Strains of Herpes Simplex Virus," <i>J Virol.</i> , 30(3):942-945 (June 1979).	
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2	EA	DUTSCHMAN, G.E., et al., "Metabolism of 2',3'-dideoxy-2',3'-didehydro-β-L-(-)-5-Fluorocytidine and Its Activity in Combination with Clinically Approved Anti-Humna Immunodeficiency Virus β-D-(+) Nucleoside Analogs In Vitro," <i>Antimicrobial Agents and Chemotherapy</i> , 42(7), 1799-1804 (July 1998).	
	EB	FU, L., et al., "Role of Additional Mutations outside the YMDD Motif of Hepatitis B Virus Polymerase in L-(-)-SddC (3TC) Resistance," <i>Biochemical Pharmacology</i> , 55(10):1567-1572 (1998).	
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	EF	Gilead FDA Advisory Committee Briefing Document. "Adefovir dipivoxil for the treatment of chronic hepatitis B," NDA 21-449, Table 1, p. 12, (5 July, 2002).	
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	EH	HERNANDEZ-SANTIAGO, B., et al., "Pharmacology of β-L-Thymidine and β-L-2'-Deoxycytidine in HepG2 Cell and Primary Human Hepatocytes: Relevance to Chemotherapeutic Efficacy against Hepatitis B Virus," <i>Antimicrobial Agents and Chemotherapy</i> , 46(6), 1728-1733 (June 2002).	
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	FA	IMAI, K., <i>et al.</i> , "Studies on Phosphorylation. IV. Selective Phosphorylation of the Primary Hydroxyl Group in Nucleosides." <i>J. Org. Chem.</i> , 34(6):1547-1550 (June 1969).	
	FB	JONES, R.J., <i>et al.</i> , "Mini Review: Nucleotide prodrugs," <i>Antiviral Research</i> , 27:1-17 (1995).	
	FC	JUROVČIK, W., <i>et al.</i> , "Metabolism of pyrimidine L-nucleosides," <i>Nucleic Acids Research</i> , 3(8), 2143-2154 (August 1976).	
	FD	KORBA, B.E., <i>et al.</i> , "A cell culture assay for compounds which inhibit hepatitis B virus replication," <i>Antiviral Res.</i> , 15:217-228 (1991).	
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	FF	KRAYEVSKY A.A., <i>et al.</i> , "Should the Asymmetry of Enzymatic Active Centers Always Correlate with the Asymmetry of their Substrates?," <i>J. of Biomolecular Structure & Dynamics</i> , 14(2):225-230 (1996).	
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	FK	LIN, T.S., <i>et al.</i> , "Design and Synthesis of 2',3'-Dideoxy-2', 3'-didehydro-β-L-cytidine (β-L-d4C) and 2',3'-Dideoxy-2', 3'-didehydro-β-L-5-fluorocytidine (β-L-Fd4C), Two Exceptionally Potent Inhibitors of Human Hepatitis B Virus (HBV) and Potent Inhibitors of Human Immunodeficiency Virus (HIV) <i>In Vitro</i> ," <i>J. Med. Chem.</i> , 39(9):1757-1759 (April 26, 1996).	
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Application Number	10/662,641
Filing Date	September 15, 2003
First Named Inventor	Standing, et al.
Group Art Unit	1623
Examiner Name	Unassigned
Attorney Docket Number	06171.105097 IDX 1021

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	GA	NAKAYAMA, C., et al., "Synthetic Nucleosides and Nucleotides. XX. Synthesis of Various 1-β-Xylofuranosyl-5-Alkyluracils and Related Nucleosides," <i>Nucleosides & Nucleotides</i> , 1(2):139-146 (1982).	
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	GC	ONO, S. K., et al., "The polymerase L528M mutation cooperates with nucleotide binding-site mutations, increasing hepatitis B virus replication and drug resistance," <i>J. Clin. Invest.</i> , 107:449-455 (2001).	
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				Application Number	10/662,641
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	September 15, 2003
				First Named Inventor	Standring, <i>et al.</i>
				Group Art Unit	1623
				Examiner Name	Unassigned
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	HA	SCHINAZI, R.F., <i>et al.</i> , "Selective Inhibition of Human Immunodeficiency Viruses by Racemates and Enantiomers of <i>cis</i> -5-Fluoro-1-[2-(Hydroxymethyl)-1,3-Oxathiolane-5-yl] Cytosine," <i>Antimicrobial Agents and Chemotherapy</i> , 36(11):2423-2431 (November 1992).	
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	HE	SÖDERLUND, J.C.F., "Mitochondrial versus cytosolic activities of deoxyribonucleoside salvage enzymes," in <i>Purine and Pyrimidine Metabolism in Man VIII</i> , A. Shota & M. Taylor (Eds.), Plenum Press, New York, 1995, pp. 201-204.	
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	HG	STUYVER, L. J., <i>et al.</i> , "Nomenclature for antiviral-resistant human hepatitis B virus mutations in the polymerase region," <i>Hepatology</i> 33(3):751-757 (March 2001).	
	HH	TYRSTED, G., <i>et al.</i> , "Inhibition of the synthesis of 5-phosphoribosyl-1-pyrophosphate by 3'-deoxy-adenosine and structurally related nucleoside analogs," <i>Biochim. Biophys. Acta.</i> , 155(2):619-622 (February 26, 1968).	
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Application Number

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First Named Inventor

Standing, *et al.*

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Examiner Name

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	IA	YING, C., <i>et al.</i> , "Inhibition of the replication of the DNA polymerase M550V mutation variant of human Hepatitis B Virus by adefovir, tenofovir, L-FMAU, DAPD, penciclovir and lobucavir," <i>J. Viral Hepatitis</i> , 7:161-165 (2000).	
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	IC	ZHANG, W., <i>et al.</i> , "Removal of Silyl Protecting Groups from Hydroxyl Functions with Ammonium Fluoride in Methanol," <i>Tetrahedron Letters</i> , 33(9):1177-1180 (1992).	
	ID	ZHU, Y.-L., <i>et al.</i> , "Inhibition of Replication of Hepatitis B Virus by Cytallene In Vitro," <i>Antimicrobial Agents and Chemotherapy</i> , 41(8):1755-1760 (August 1997).	
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	IH	ZOULIM, F., "Evaluation of novel strategies to combat hepatitis B virus targeting [sic] wild-type and drug-resistant mutants in experimental models," <i>Antivir. Chem. Chemother.</i> , 12(Suppl. 1):131-142 (2001).	

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